# XR-6054/XRS-555

# SERVICE MANUAL

*Saudi Arabia Model*

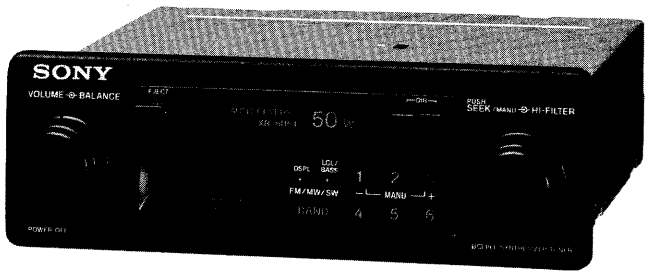



**Photo : XR-6054**

| | |
|---|---|
| Model Name Using Similar Mechanism | XR-3324 |
| Tape Transport Mechanism Type | MG-36SHJ-32 |

## SPECIFICATIONS

### *Power amplifier section*

| | |
|---|---|
| Outputs | Speaker outputs (sure seal connectors) |
| Speaker impedance | 4 – 8 ohms |
| Maximum power output | 25 W × 2 (at 4 ohms) |

### *Cassette player section*

| | |
|---|---|
| Tape track | 4-track 2-channel stereo |
| Frequency response | 30 – 15,000 Hz |
| Signal-to-noise ratio | 55 dB with TYPE 1 cassettes |
| Wow and flutter | 0.15% (WRMS) |

### *Tuner section*

**FM**

| | |
|---|---|
| Tuning range | 87.5 – 108.0 MHz |
| Antenna terminal | External antenna connector |
| Intermediate frequency | 10.7 MHz |
| Usable sensitivity | 13 dBf (75 ohms) |
| Selectivity | 70 dB at 400 kHz |
| Signal-to-noise ratio | 62 dB (stereo), 65 dB (mono) |
| Harmonic distortion at 1 kHz | 1.0% (stereo), 0.8% (mono) |
| Separation | 30 dB at 1 kHz |
| Frequency response | 30 – 15,000 Hz |
| Capture ratio | 3 dB |

**MW**

| | |
|---|---|
| Tuning range | 531 – 1,602 kHz |
| Antenna terminal | External antenna connector |
| Intermediate frequency | 450 kHz/10.71 MHz |
| Sensitivity | 35 µV |

**SWI, II**

| | |
|---|---|
| Tuning range | SWI : 2.940 – 7.735 MHz<br>SWII: 9.500 – 18.135 MHz<br>(except for 10.140 – 11.575 MHz) |
| Intermediate frequency | 450 kHz/10.71 MHz |
| Sensitivity | 35 µV |

### *General*

| | |
|---|---|
| High-cut filter | –10 dB at 10 kHz |
| Bass boost | +8 dB at 100 Hz |
| Power requirements | 12 V DC car battery (negative ground) |
| Mounting dimensions | Approx. 178 × 50 × 134 mm (w/h/d), not incl. projecting parts and controls |
| Mass | Approx. 1.2 kg |
| Accessories supplied | Mounting hardware (1 set)<br>Power connecting cord (1) |

Design and specifications subject to change without notice.

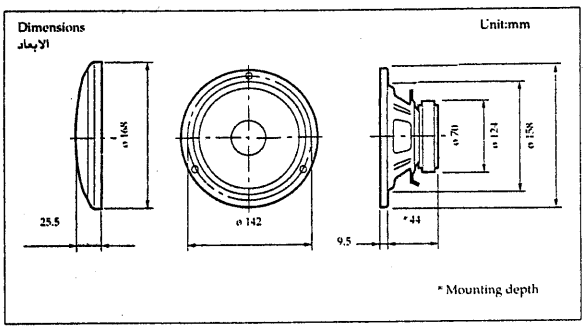
## FM/AM CASSETTE CAR STEREO

SONY®

**XRS-555 only**

| | |
|---|---|
| Speaker | Dual cone full range 16 cm type |
| Maximum input power | 120 watts |
| Rated power | 10 watts |
| Impedance | 4 ohms |
| Sensitivity | 88 dB/W/m |
| Frequency response | 20 – 20,000 Hz |
| Weight | Approx. 520 g per speaker |
| Accessories supplied | Mounting hardware (1 set)<br>Speaker cords (2) |

Design and specifications subject to change without notice.




# Features

## General

- **With the built-in high power amplifier (max. output: 25 W × 2 ch)** enables you to enjoy a 2-speaker system.
- Provided with **a digital 12-hour clock** (page 6).

## Cassette player section

- **The auto-reverse function** changes the tape direction automatically.

## Tuner section

- **SSIR (Sony Super Interference Rejection) PLL synthesizer tuner**
- The quartz-locked digital synthesizer system enables easy and accurate tuning.
- Up to 24 stations can be preset, 6 stations on FM, 6 stations on MW, 6 stations on SWI, 6 stations on SWII.

## TABLE OF CONTENTS


*Section* *Title* *Page*

**1. GENERAL**
Location and Function of Controls ····· 3
Setting the Clock ····· 4
Listening to the Tape Playback ····· 4
Tuning in a Station ····· 5
Using the Memory Preset Tuning ····· 5
Installation ····· 6
Connections ····· 6

**2. MECHANICAL ADJUSTMENTS** ····· 8

**3. ELECTRICAL ADJUSTMENTS** ····· 8

**4. EXPLANATION OF IC TERMINALS** ····· 11

**5. DIAGRAMS**
5-1. Block Diagram ····· 12
5-2. Printed Wiring Boards ····· 15
5-3. Schematic Diagram ····· 19

**6. EXPLODED VIEWS**
6-1. Front Panel Section ····· 25
6-2. Main Section ····· 26
6-3. MD Section-1 (MG-36SHJ-32) ····· 27
6-4. MD Section-2 (MG-36SHJ-32) ····· 28

**7. ELECTRICAL PARTS LIST** ····· 29

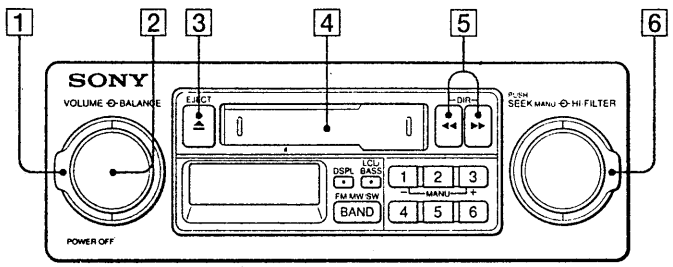

**Flexible Circuit Board Repairing**

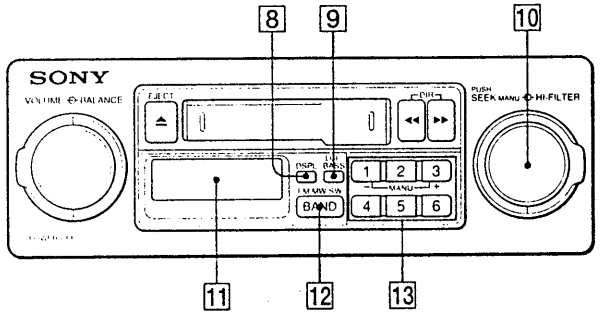
- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

**Notes on chip component replacement**

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

# Location and Function of Controls




Refer to the pages in ● for details.

**1 BALANCE control**
Turn to adjust the balance of the left and right speakers.

**2 POWER OFF (power on/off) switch/VOLUME control**

| | |
|---|---|
| POWER OFF switch | Turn clockwise to turn on the unit and counterclockwise to turn off. |
| VOLUME control | Turn clockwise to increase volume and counterclockwise to decrease. |

**3 EJECT button**
Press to stop the tape and take out the cassette.

**4 Cassette insertion door**

**5 ◀◀/▶▶ (fast winding)/DIR (tape transport direction change) buttons ❼**
During playback, press ◀◀ or ▶▶ for fast winding, or press both ◀◀ and ▶▶ simultaneously to listen to the other side of the cassette.

**6 HI-FILTER (high-cut filter)**
Turn counterclockwise to reduce the high frequency and produce a easy sound.

**8 DSPL (display change) button ❻**
Each time you press the button, the display modes change as follows:

| | |
|---|---|
| During Tape playback | Clock |
| During Radio reception | Frequency ⟷ Clock |

**9 LCL (local seek)/BASS (bass boost) button ❽**

| | |
|---|---|
| LCL | Press to prevent the automatic tuning function from stopping too frequently on stations. |
| BASS | Press the button for more than two seconds to reinforce bass especially when listening at low volume.<br>To disengage the button, press it for more than two seconds again. |

**10 PUSH SEEK/MANU button ❽**

| | |
|---|---|
| PUSH SEEK button | Press for automatic tuning. |
| PUSH MANU button | Press the button for more than two seconds to enter the manual tuning mode, then adjust the frequencies using the preset number button 1 (−) or 3 (+). |

**11 Display window**

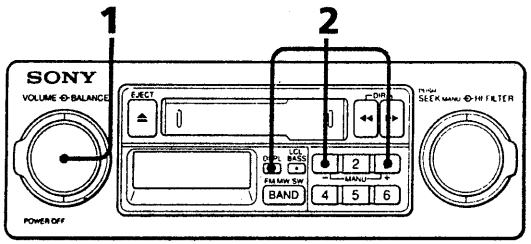
**12 BAND (band select) button ❽**
Each time you press the button, the band changes as follows:
→ FM → MW → SWI → SWII →

**13 Preset number buttons ❻ ❽ ❾**
Use the 1 (−) and 3 (+) buttons also for manual tuning and clock setting.



This section is extracted from instruction manual.

# Setting the Clock




The clock has a 12-hour digital indication.

For example, to set it to 10:08.

**1** **Turn clockwise to turn the power on.**

**2** **Press the DSPL button for more than two seconds.**
The indication starts to blink after two seconds.

DSPL

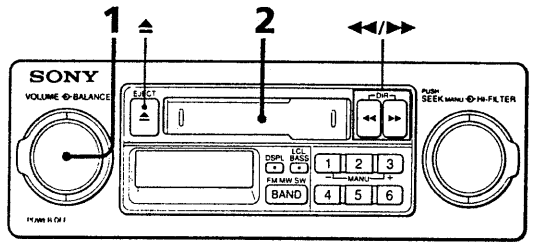
**Press the [1] button to set the hour digits.**

**Press the [3] button to set the minute digits.**

**3** **Press the DSPL button momentarily.**
The clock activates.

**When you set minute digits "00" comes after "59". Setting the hour digits will not affect the minute digits.**
When setting the minute digits, the second digits will change to "00".

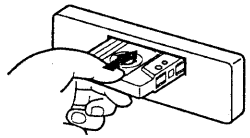
# Listening to the Tape Playback




Before inserting a cassette, take up any slack in the tape with a thick pencil.

**1** **Turn clockwise to turn the power on.**

**2** **Insert a cassette.**
Playback starts automatically.



**To listen to the reverse side of the cassette,**

**press** [◀◀ ▶▶] **simultaneously.**

## To Eject the Cassette and Listen to the Radio

Press the ⏏ button.

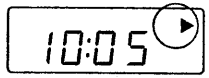
## To Wind the Tape Rapidly

| Direction indicator | To advance | To rewind |
|---|---|---|
| ► | press ▶▶. | press ◀◀. |
| ◄ | press ◀◀. | press ▶▶. |

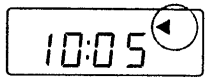
To resume playback, press ◀◀ or ▶▶ (that one which is not depressed) lightly.

**Note**
Before turning off the unit; eject the tape to avoid tape damage.

**Tape transport direction indication.**

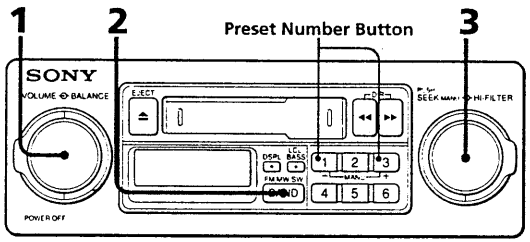



The side facing up is being played back.




The side facing down is being played back.

# Tuning in a Station




## Searching for the Stations Automatically — Automatic Tuning

**1** Turn clockwise to turn the power on.

**2** Press to select the desired band, FM, MW, SWI or SWII.

BAND

**3** Press the PUSH SEEK button.
Stations will be scanned automatically, and scanning will stop when a station is tuned in. Press the PUSH SEEK button repeatedly until the desired station is tuned in.

## Tuning in by Adjusting the Frequency — Manual Tuning

1 Press to select the desired band. FM, MW, SWI or SWII.

2 Press the PUSH MANU button for more than two seconds; the sound will mute. When it comes on again, manual mode is entered.

3 Press the preset number button 1 or 3, and adjust the frequency.

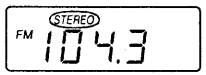
For lower frequencies [1] [3] For higher frequencies
MANU

If you don't adjust within four seconds, the manual mode will be canceled. It will also be canceled if another button than preset number button 1 or 3 is pressed.

***PREVENTING ACCIDENTS!***

For tuning during driving, it is recommended to use Automatic Tuning or Memory Preset Tuning instead of Manual Tuning.

**When an FM stereo program with a sufficient signal strength is tuned in**




The "STEREO" indication appears.

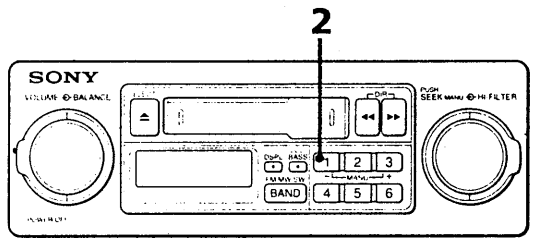
**To play back a cassette during radio reception**
Insert a cassette. The radio will be turned off and playback will start automatically.

**Avoiding the automatic tuning from stopping on stations too frequently (Local Seek Mode)**
Press the LCL button momentarily to get the "LOCAL" indication. Only the stations with relatively strong signals can be tuned in. The local seek mode functions only when the Automatic Tuning is in operation.
In case of FM and MW, the local seek mode functions only when Automatic Tuning is activated. In case of SW, the local seek mode works also with Manual Tuning and prevents interference with other stations.





# Using the Memory Preset Tuning




Up to 6 stations on each band (FM, MW, SWI, and SWII) can be stored on the preset number buttons in order of your choice.

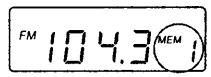
## Memorizing Only the Desired Stations

For example, store a station on the preset number button 1.

**1** Tune in a desired station.
Using automatic or manual tuning (page 8).

**2** Keep the preset number button pressed for about two seconds until the "MEM" indication comes on in the display window.

[1]




Repeat the same procedure to store other stations.

## Receiving the Memorized Stations

**Select the desired band. Press the desired preset number button lightly.**

[1] —— [6]

**Only one station per band (FM, MW, SWI, and SWII) can be stored in the memory on each preset number button.**
If you try to store another station on the same preset number button, the previously stored station will be erased.

When the "MEM" indication comes on, the station is stored in the memory and the operation is completed. The "MEM" indication goes off after a while.

**Note**
If you keep pressing the preset number button for more than two seconds, the currently received station will be memorized again. To receive the previously memorized station, make sure that the preset number button is pressed only lightly.

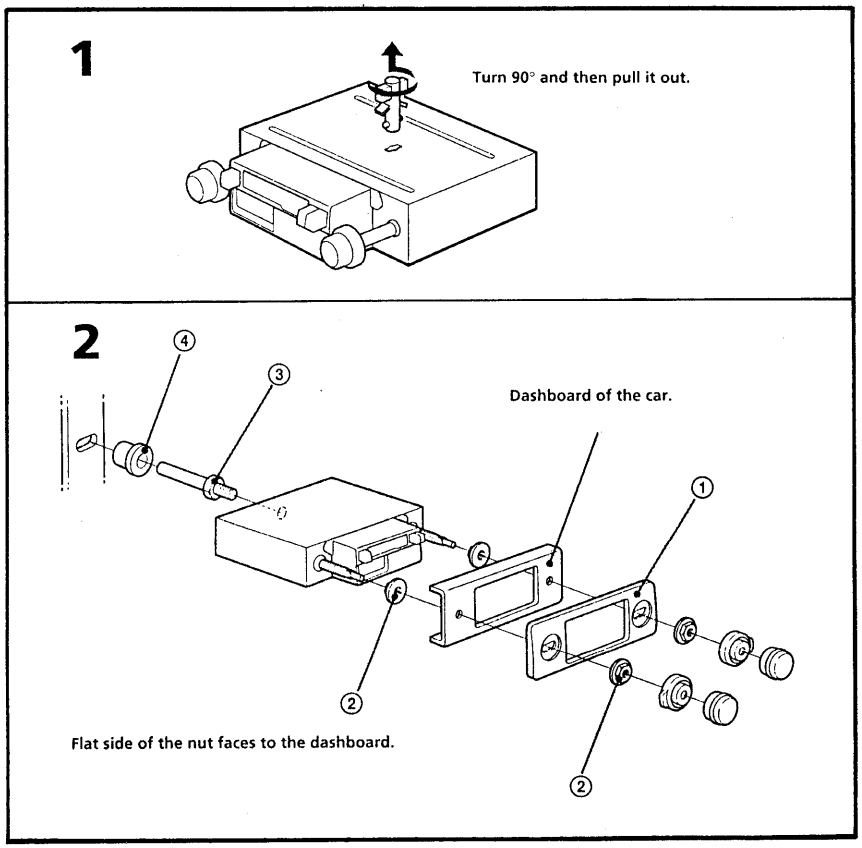
# Installation

## Precautions

- Choose the installation location carefully so that the unit will not hamper the driver during driving.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.

## Mounting Example

Installation in the dashboard






# Connections

## Precautions

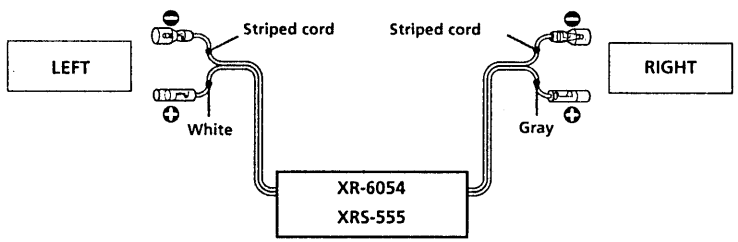
- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **yellow** and **red** power input leads only after all other leads have been connected.
- Be sure to connect the red power input lead to the positive 12 V power terminal which is energized when the ignition key is in the accessory position.
- **Run all ground wires to a common ground point.**

## Speaker Connections

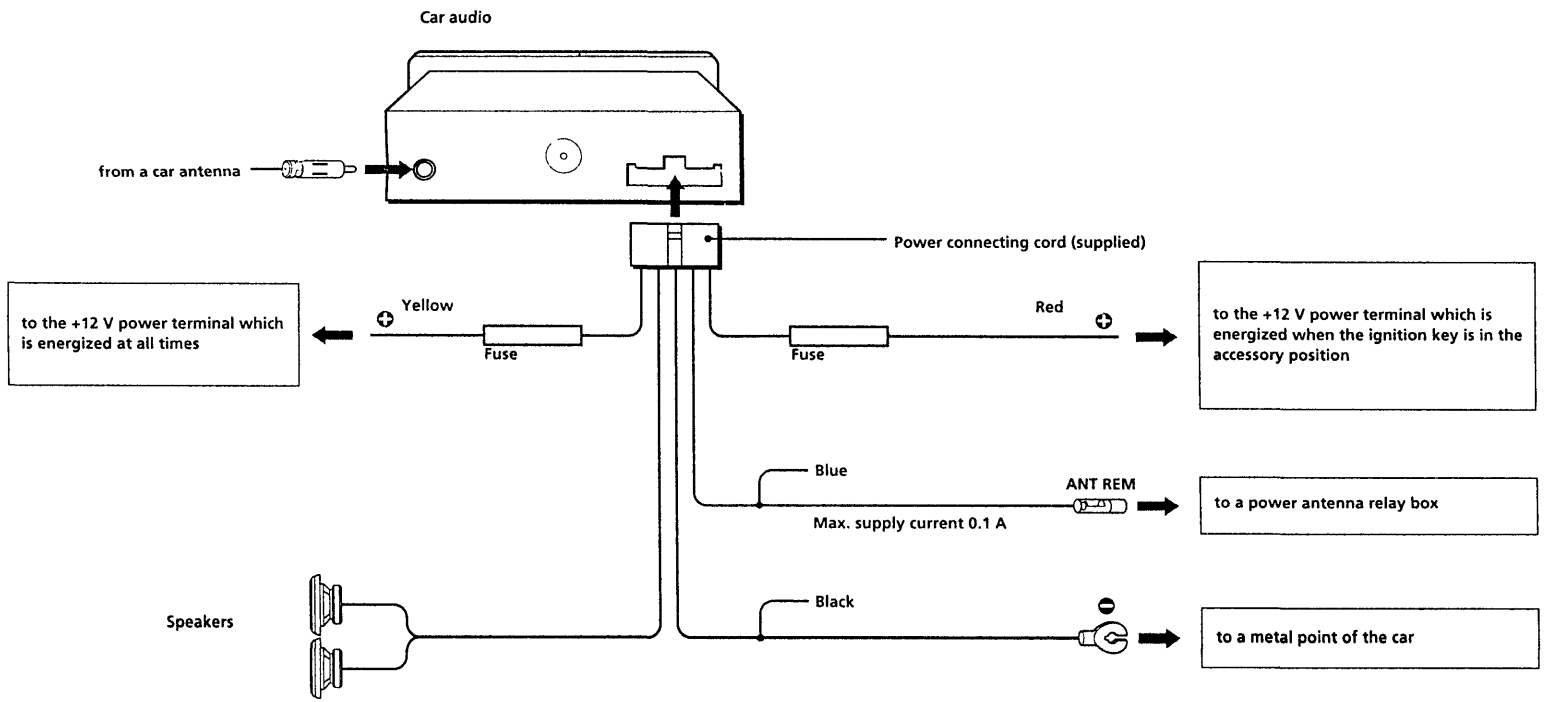
**Notes on speaker connection**

- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.
- Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.
- Do not connect the speakers in parallel.
- Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers. Therefore, be sure to connect passive speakers to these terminals.

***Speaker connection***



## *Connection Example*


Car audio
from a car antenna
Power connecting cord (supplied)
to the +12 V power terminal which is energized at all times
Yellow
Fuse
Red
Fuse
to the +12 V power terminal which is energized when the ignition key is in the accessory position
Blue
ANT REM
Max. supply current 0.1 A
to a power antenna relay box
Speakers
Black
to a metal point of the car

**Note on the control leads**
A power antenna without relay box cannot be used with this unit.

# SECTION 2
# MECHANICAL ADJUSTMENTS

### PRECAUTION

1. Wipe the following components with an absorbent cotton cloth moistened with alcohol before adjustment :
   PB head　　Pinch roller
   Idler　　Rubber belt
   Capstan
2. Demagnetize the PB head using a head demagnetizer.
3. Be careful not to use a magnetized screwdriver.
4. After adjustment is completed, lock the adjustment parts using screws.
5. Unless otherwise specified, make adjustments at the specified voltage (14.4V).

**Torque Measurement**

| Mode | Torque Meter | Meter Reading |
|---|---|---|
| FWD | CQ-102B | 40 to 75g•cm (0.56 to 1.04 oz•inch) |
| REV | CQ-102RB | |
| FF | CQ-201A | 45 to 150g•cm (0.63 to 2.08 oz•inch) |
| REW | | |

# SECTION 3
# ELECTRICAL ADJUSTMENTS

**DECK SECTION**　0dB=0.775V

1. The adjustments should be performed in the order given in this service manual.
2. The adjustments should be performed for both L-CH and R-CH.

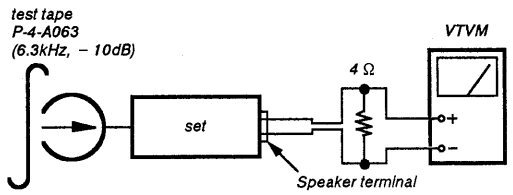
**Test Tape**

| Type | Signal | Used for |
|---|---|---|
| P-4-A063 | 6.3kHz, − 10dB | Head azimuth Adjustment |
| WS-48A | 3kHz, 0dB | Tape Speed Adjustment |

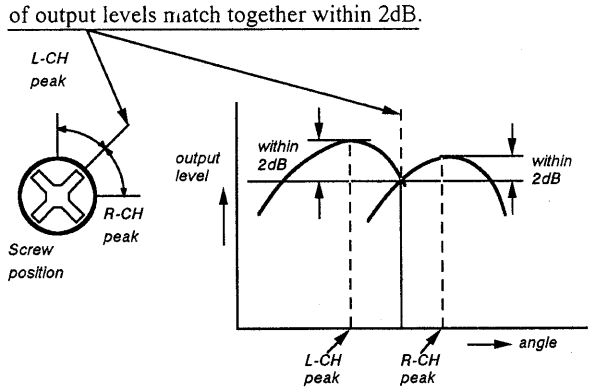
### PB Head Azimuth Adjustment

**Procedure :**

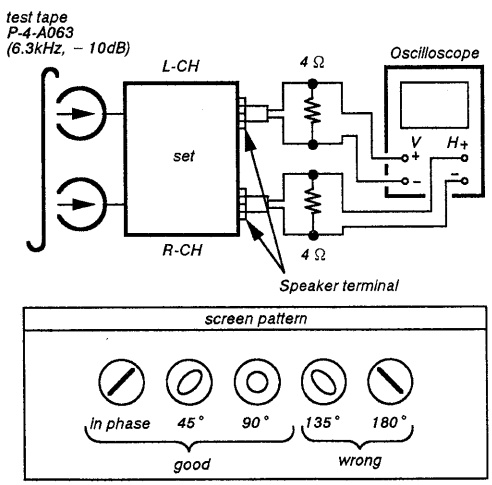
1. Mode : FWD playback




2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 2dB.

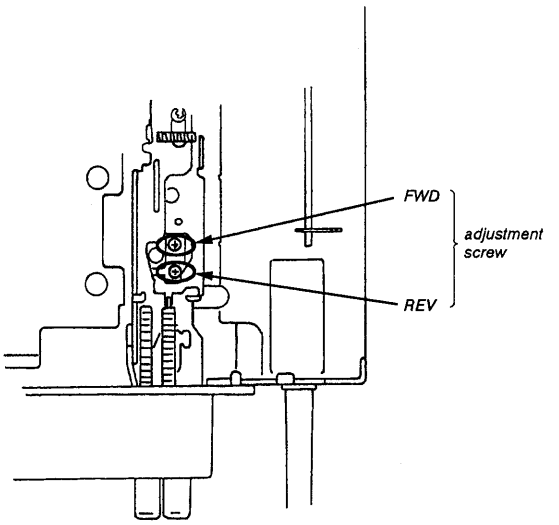



3. Phase Check



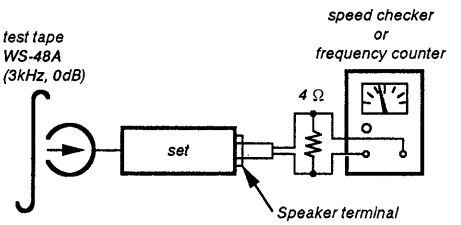

4. Repeat the above adjustment for the REV PB mode.

**Adjustment Location :**




## Tape Speed Adjustment

**Setting :**



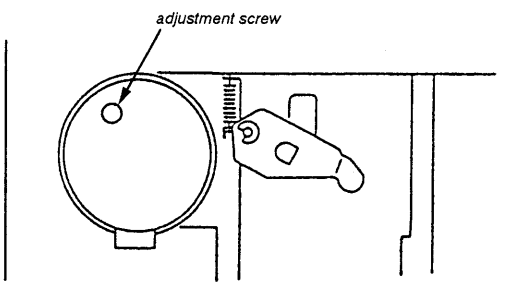

**Procedure :**

1. Put the set into the FWD PB mode.
2. Adjust adjustment screw for inside capstan motor so that the reading on the speed checker or frequency counter becomes in specification.

**Specification :** Constant speed

| Speed checker | Frequency counter |
|---|---|
| − 2 to to +3% | 2,940 to 3,090 Hz |

**Adjustment Location :**




## TUNER SECTION | 0dB=1 μV

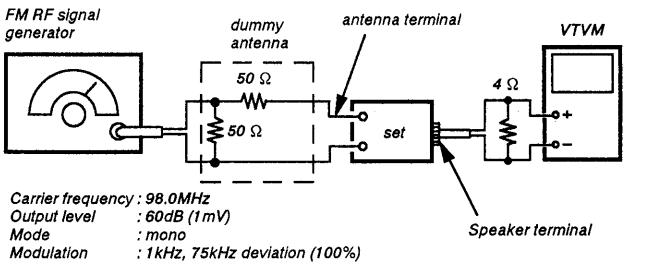
**Caution during repair**

When the front end is defective, replace it by a new one because its internal block is difficult to repair.

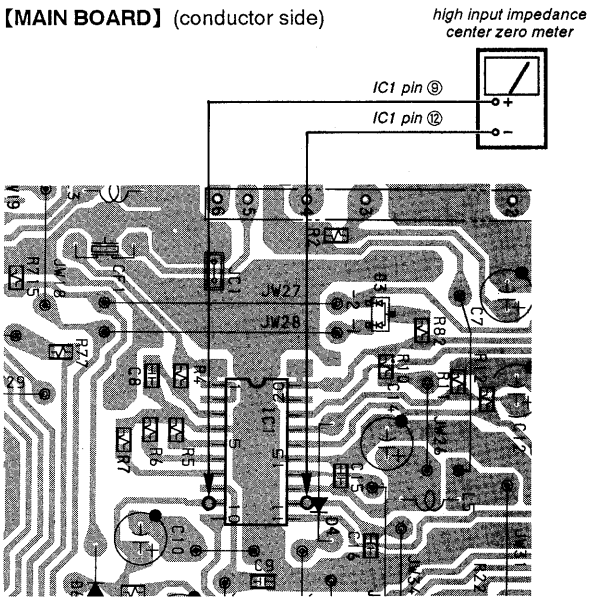
## FM Center Adjustment

**Setting :**

BAND : FM

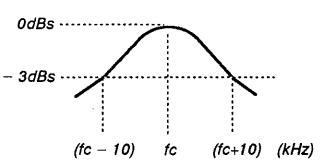



【MAIN BOARD】 (conductor side)




**Procedure :**

1. Adjust T1 so that the reading on the center meter becomes in 0 ± 20mV.
2. Output a 98.0MHz (60dB) signal from FM RF signal generator so that the speaker output terminal is 0dBs.
3. Change the FM RF signal generator frequency and check the deviation of the frequency on +side and − side when the speaker output terminal drops 3dB. (Both +side and − side is approx. 50kHz.)
4. Re-adjust T1 when the difference deviation of the frequency does more than 10kHz between +side and − side.

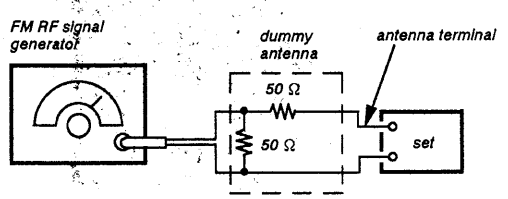



**Adjustment Location :** Main board (Component side)
(See page 10)

## FM Auto Scan/Stop Level Adjustment

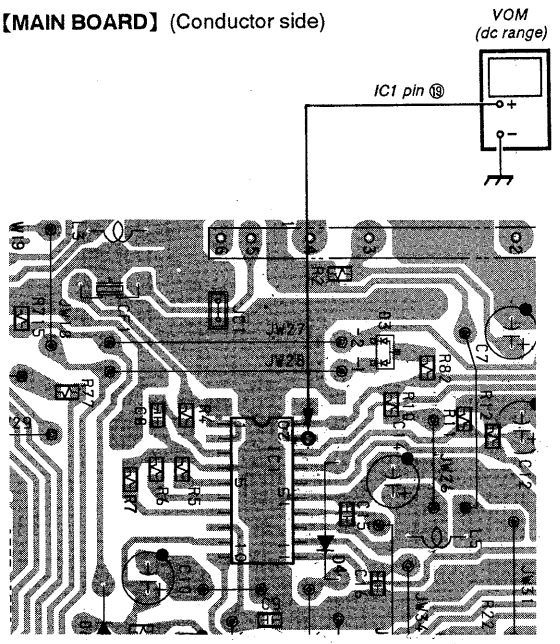
**Setting :**

BAND : FM




*Carrier frequency : 98.0MHz*
*Output level : 22dB (12.6 μV)*
*Mode : mono*
*Modulation : 1kHz, 30%, modulation*

**【MAIN BOARD】** (Conductor side)

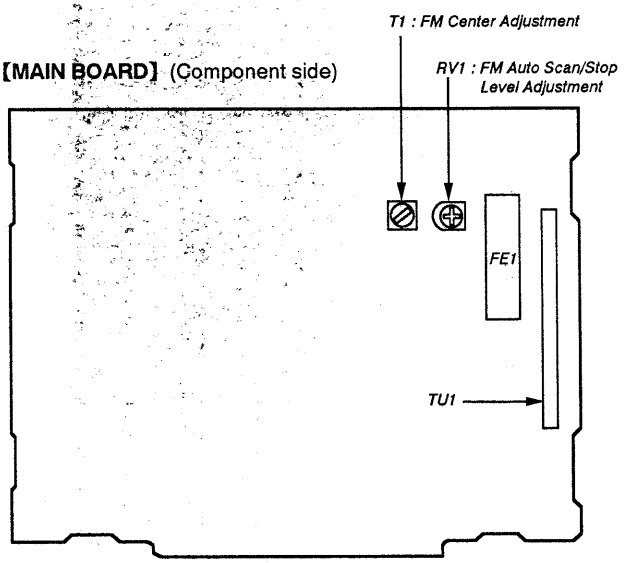



**Procedure :**

1. Adjust RV1 at the point where the VOM reading changes from low to high.
2. Confirm that the set stops auto-scanning with FM RF signal generator output level set at 25 ± 2dB.

**Adjustment Location :** Main board

**【MAIN BOARD】** (Component side)



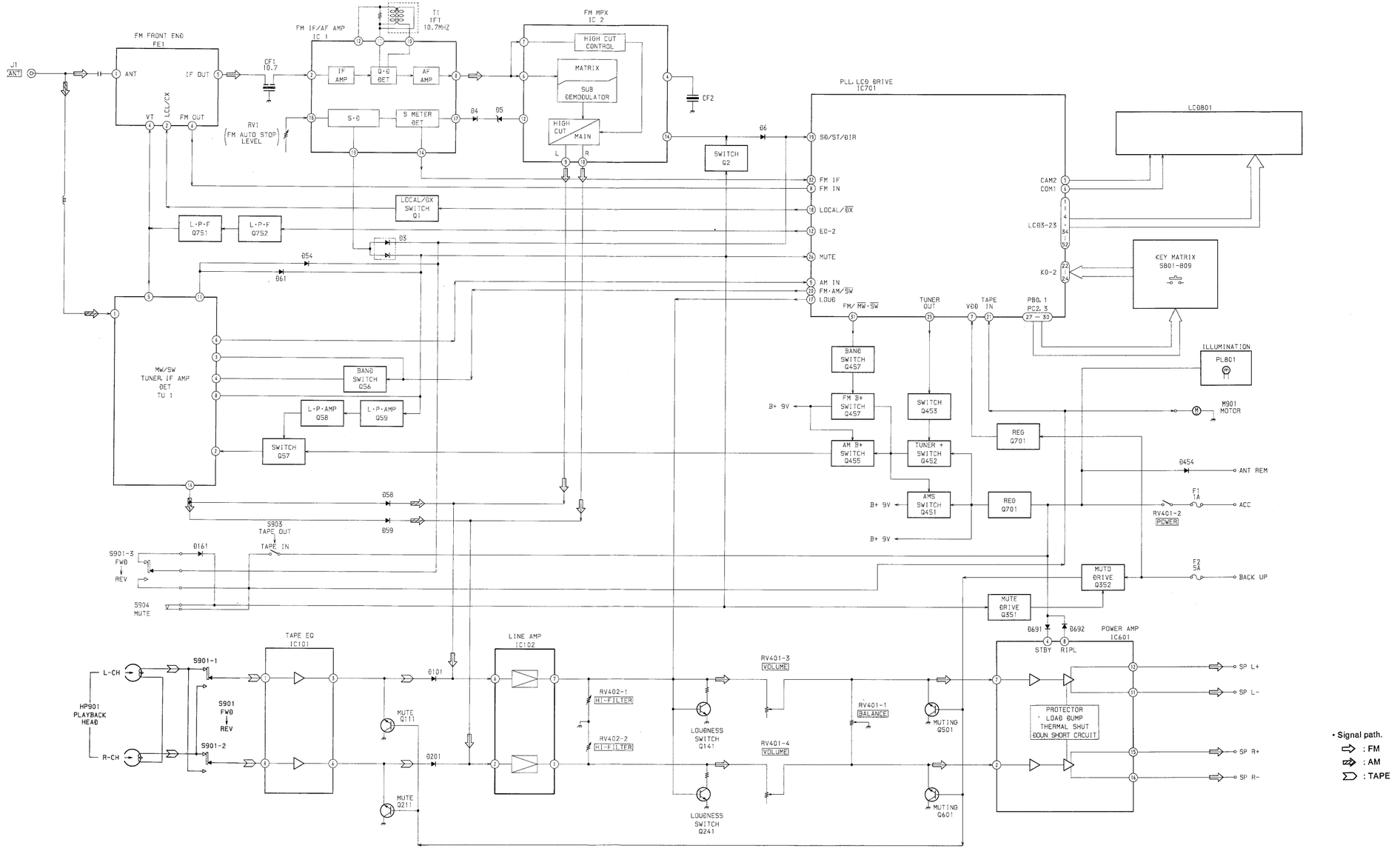
# SECTION 4
# EXPLANATION OF IC TERMINALS

**IC701 μPD1713AG-675-00**

| Pin No. | Pin name | I/O | Description |
|---|---|---|---|
| 1 – 4 | LCD 5 – 2 | O | LCD Segment output terminals. |
| 5, 6 | COM 2, 1 | O | LCD Common output terminals. |
| 7 | $V_{DD}$ | – | Power supply. (+5V) |
| 8 | FM IN | I | FM Local oscillation input terminal. |
| 9 | AM IN | I | AM Local oscillation input terminal. |
| 10 | $V_{SS}$ | – | Power supply. (GND) |
| 11, 12 | EO 2, 1 | O | PLL Error output terminals. |
| 13 | CE | I | Device selection input terminal. |
| 14 | NC | – | Not used. |
| 15, 16 | XI, O | I/O | System clock oscillations. (4.5MHz) |
| 17 | LOUD | O | Low output when "LOUD" lit up, high output when "LOUD" off. |
| 18 | LOCAL/$\overline{DX}$ | O | During seek or auto-scan, high if "LCL" lit up, low if "LCL" is off. |
| 19 | SD/ST/DIR | I | SD/ST/DIR Input terminal.<br>〈RADIO Mode〉 : Station detector input pin for auto-seek.<br>During auto-seek operations, when a high level signal is input to this pin, it is judged that there is a station.<br>〈TAPE Mode〉 : Tape running display input pin.<br>When a high level signal is input to this pin, "◁" is displayed on the LCD display, when a low level signal is input, "▷" is displayed. |
| 20 | FM • MW/$\overline{SW}$ | O | Band select output. "L" : SW |
| 21 | TAPE IN | I | Tape input signal detection. |
| 22 – 24 | K2 – 0 | I | Key returm input terminals. |
| 25 | TUNER OUT | O | TAPE/RADIO Mode output terminals. "H" : RADIO "L" : TAPE |
| 26 | MUTE | O | Mute output terminal. "H" : MUTE ON |
| 27, 28 | PB1, 0 | O | Key returm output terminal. |
| 29, 30 | PC3, 2 | O | Key return output terminal. |
| 31 | FM/$\overline{MW}$, $\overline{SW}$ | O | Band select output. "H" : FM "L" : MW/SW |
| 32 | FM IN | I | FM Local oscillation input. |
| 33 | $V_{DD}$ | – | Not used. |
| 34 | AM IN | I | AM Local oscillation input. |
| 35 | LCD GND | – | GND |
| 36 – 52 | LCD23 – 6 | O | LCD Segment output terminals. |

# SECTION 5
# DIAGRAMS

## 5-1. BLOCK DIAGRAM




• Signal path.
⇨ : FM
⇨ : AM
⇨ : TAPE

## 5-2. PRINTED WIRING BOARDS

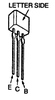
### • SEMICONDUCTOR LEAD LAYOUTS

DTC114TK
DTC144EK
DTC124EK
DTC144TK
2SA1162-G
2SC1623-L5L6
2SC2412KLN-T146-E

2SD2012

DAP202K

2SA1150-Y




MTZJ-T-77-9.1A
RD2.7ESB2
RD5.6ESB2
1SS133
11ES2

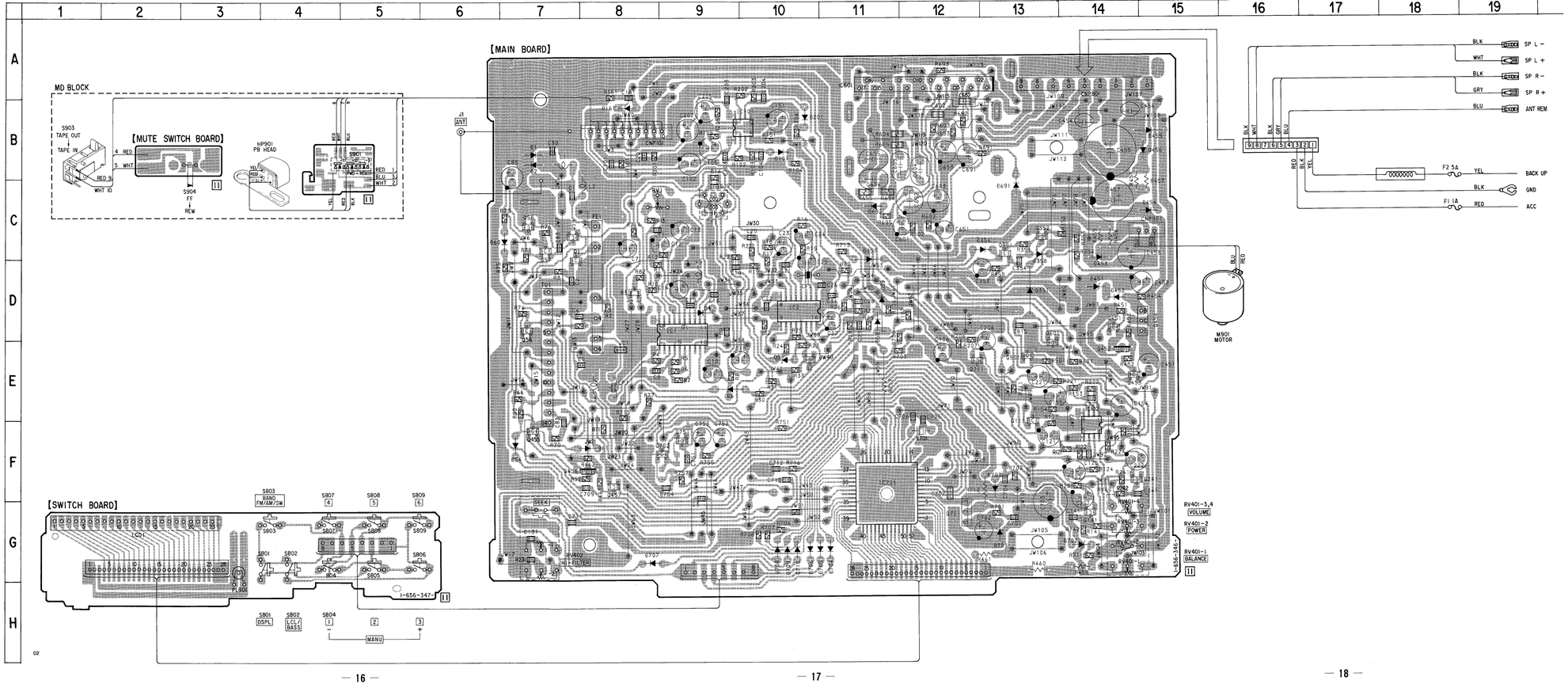
2SC2673-Q

### • SEMICONDUCTOR LOCATION

| Ref. No. | Location | Ref. No. | Location |
|---|---|---|---|
| D1 | B - 7 | IC1 | D - 9 |
| D2 | B - 7 | IC2 | D - 10 |
| D3 | D - 8 | IC101 | B - 10 |
| D4 | D - 9 | IC102 | F - 14 |
| D5 | E - 10 | IC601 | A - 12 |
| D6 | E - 9 | IC701 | F - 11 |
| D54 | F - 7 | | |
| D58 | D - 11 | | |
| D59 | D - 11 | Q1 | D - 9 |
| D60 | C - 7 | Q2 | D - 10 |
| | | Q56 | D - 7 |
| D61 | F - 8 | Q57 | C - 7 |
| D101 | B - 10 | Q58 | C - 7 |
| D161 | B - 8 | | |
| D201 | B - 10 | Q59 | C - 7 |
| D351 | D - 13 | Q111 | F - 13 |
| | | Q141 | G - 14 |
| D354 | C - 13 | Q211 | E - 12 |
| D357 | C - 11 | Q241 | F - 14 |
| D358 | C - 13 | | |
| D451 | D - 14 | Q351 | C - 13 |
| D452 | D - 14 | Q352 | C - 13 |
| | | Q451 | D - 14 |
| D453 | C - 14 | Q452 | E - 14 |
| D454 | C - 15 | Q453 | E - 14 |
| D455 | B - 15 | | |
| D456 | B - 15 | Q454 | D - 15 |
| D691 | C - 13 | Q455 | F - 7 |
| | | Q456 | F - 8 |
| D692 | C - 11 | Q457 | F - 8 |
| D701 | G - 13 | Q501 | E - 13 |
| D702 | G - 14 | | |
| D703 | F - 13 | Q601 | E - 13 |
| D704 | G - 11 | Q701 | G - 12 |
| | | Q751 | F - 9 |
| D705 | G - 10 | Q752 | F - 8 |
| D706 | G - 10 | | |
| D707 | G - 8 | | |
| D708 | G - 10 | | |
| D709 | G - 10 | | |
| D710 | G - 10 | | |

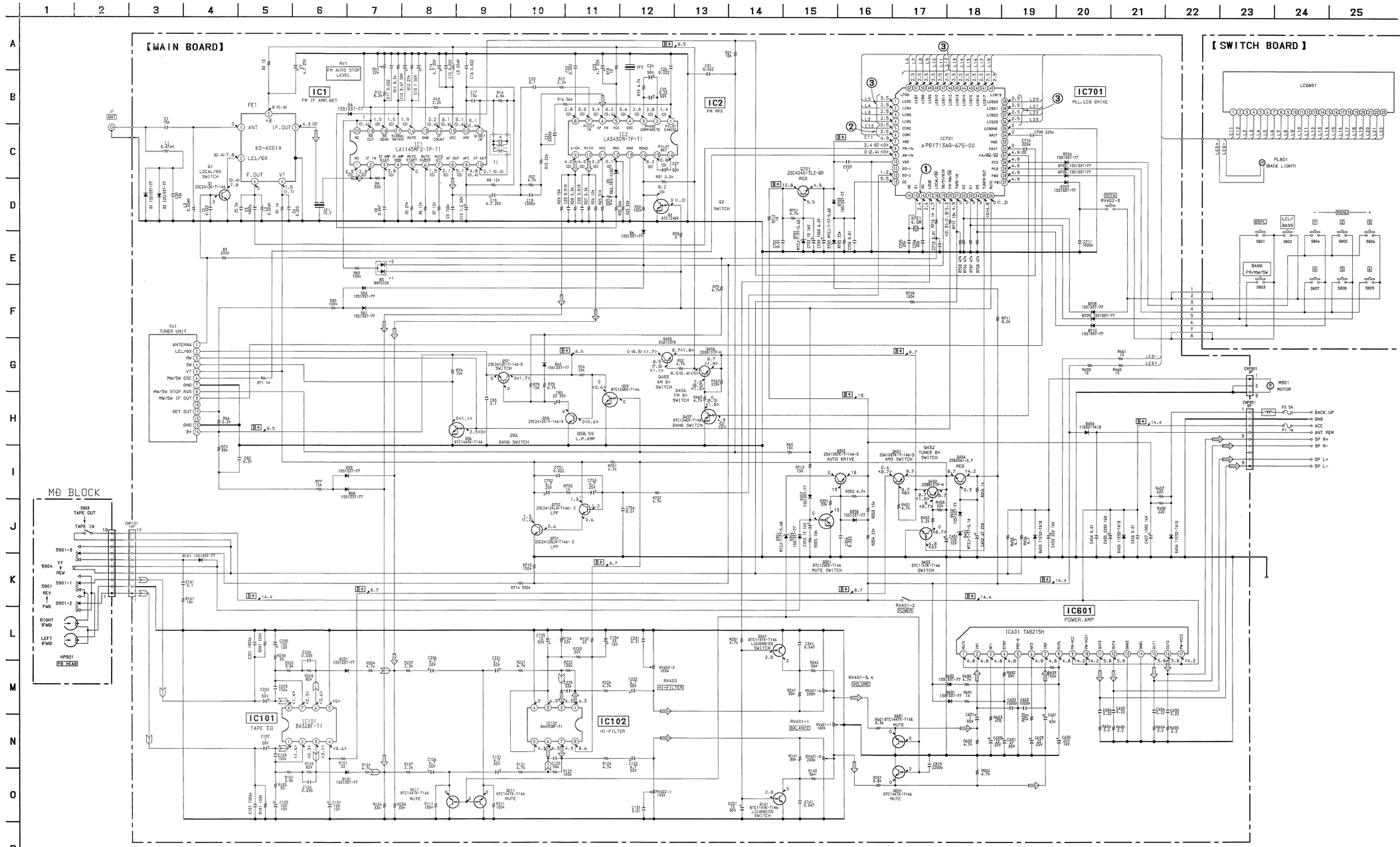
Note:

- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.



5-3. SCHEMATIC DIAGRAM

• Refer to page 23 for IC Block Diagrams.

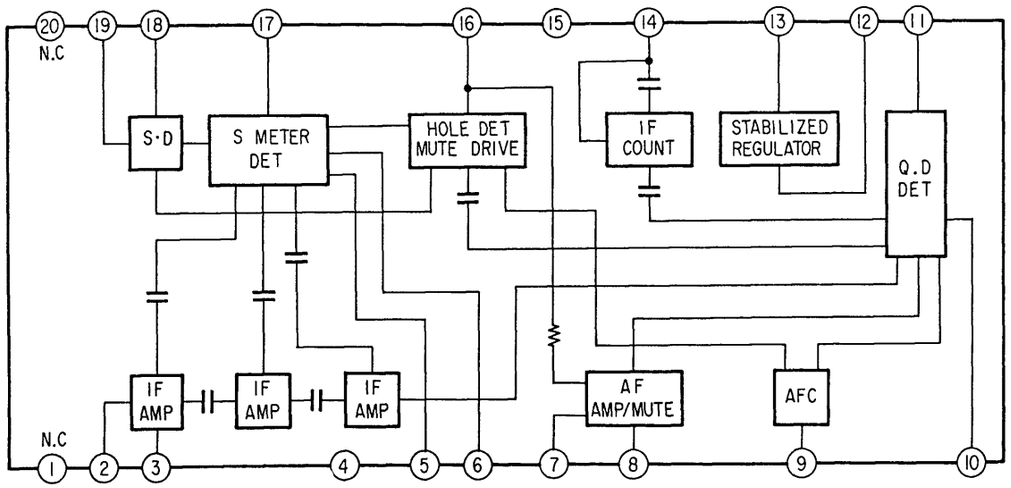



Note :

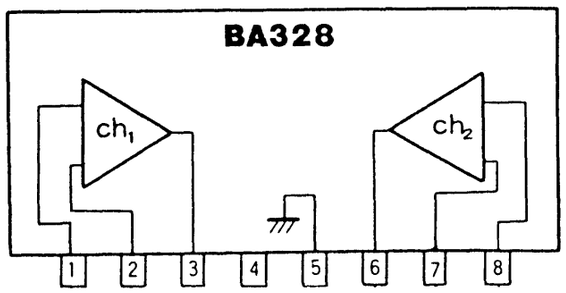
- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- B+ : B+ Line
- : adjustment for repair.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BACK-UP terminals.
- Voltage and waveforms are dc with respect to ground under no-signal ( detuned ) conditions.
  no mark : FM
  ( ) : AM
  < > : TAPE
- Voltages are taken with a VOM ( Input impedance 10M Ω ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM ⇨ : PB

## • IC BLOCK DIAGRAMS

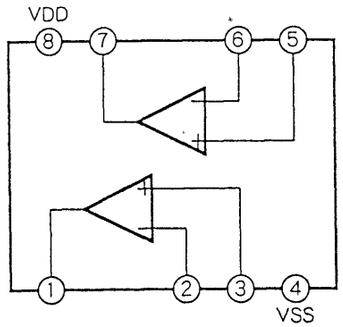
### IC1 LA1145MF2




### IC101 BA328F

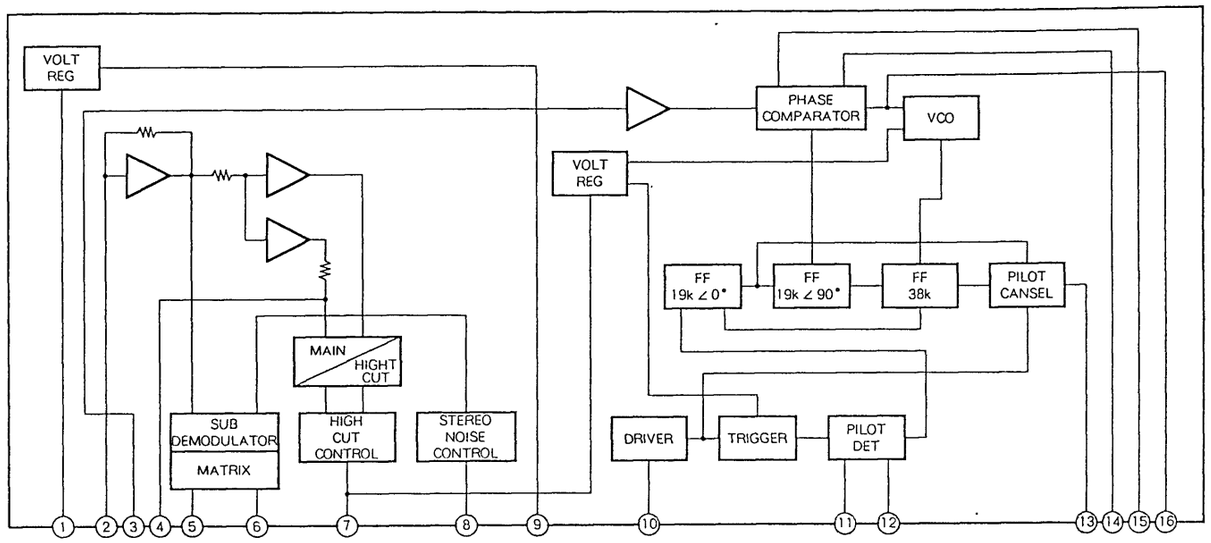



### IC102 BA4558F

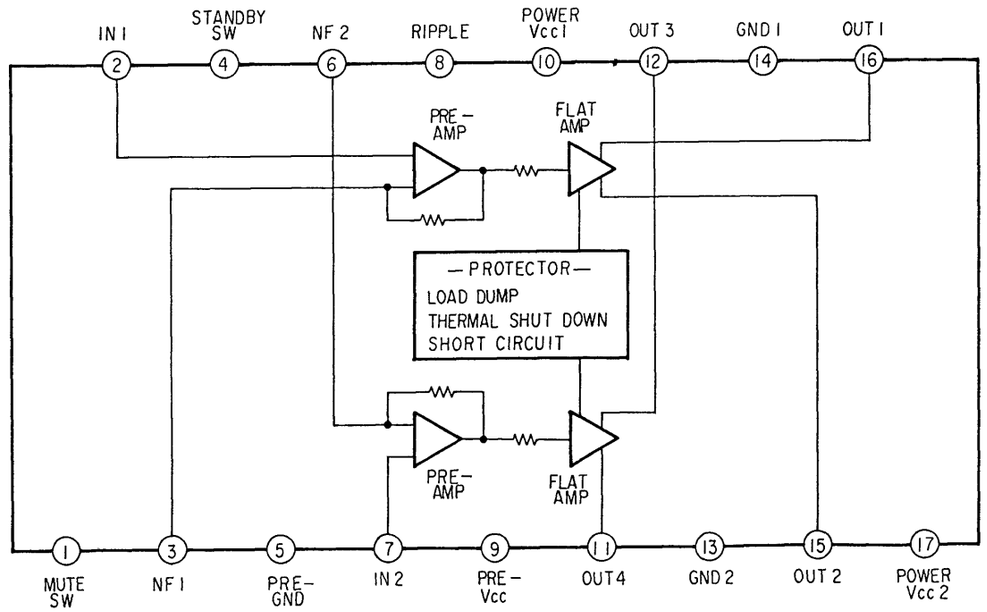





### IC2 LA3430M




### IC601 TA8215H

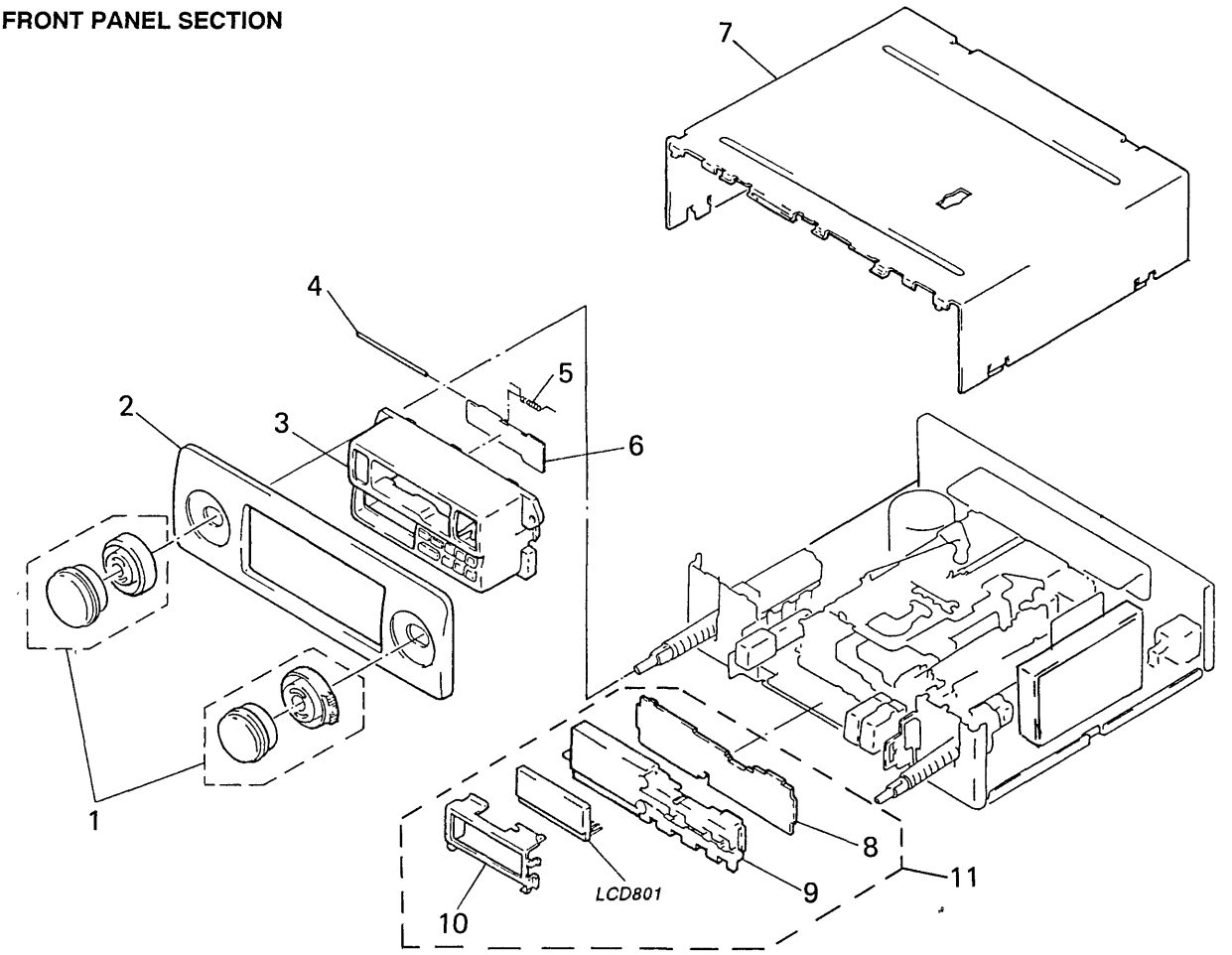


# SECTION 6
# EXPLODED VIEWS

NOTE :

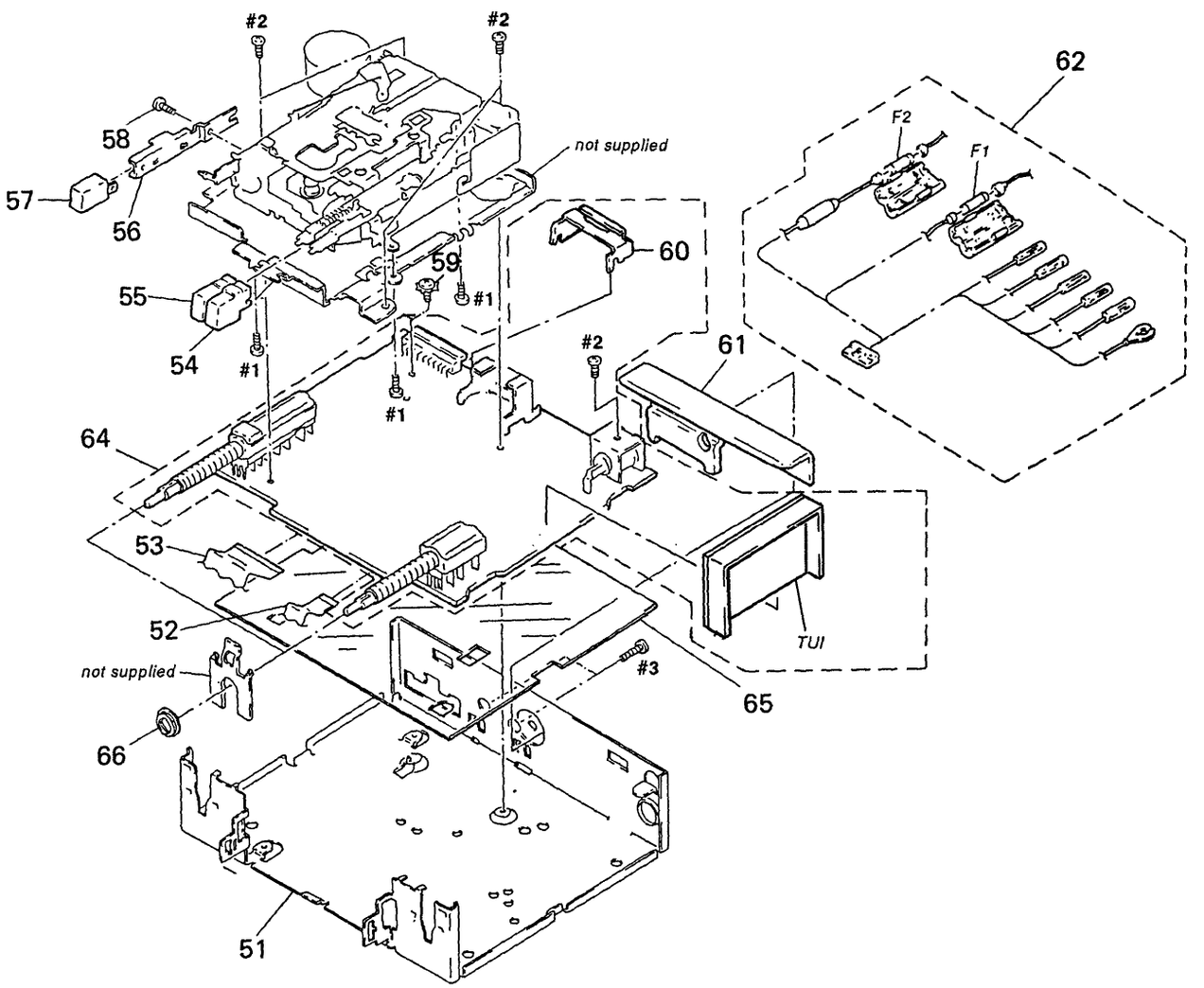
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware ( # mark) list and accessories and packing materials are given in the last of this parts list.

## 6-1. FRONT PANEL SECTION




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 1 | X-3363-799-1 | KNOB (A) ASSY | |
| 2 | 3-383-094-81 | PLATE, TRIM | |
| 3 | X-3369-841-1 | PANEL SUB ASSY, FRONT | |
| 4 | 3-332-130-01 | SHAFT, C DOOR | |
| 5 | 3-559-944-00 | SPRING | |
| 6 | 3-912-312-21 | DOOR, CASSETTE | |
| 7 | 3-373-620-01 | COVER | |
| * 8 | 1-656-347-11 | SWITCH BOARD | |
| * 9 | 3-909-885-01 | PLATE, LIGHT GUIDE | |
| * 10 | 3-911-290-01 | BRACKET (LCD) | |
| * 11 | A-3291-297-A | INDICATION BLOCK ASSY | |
| LCD801 | 1-810-837-11 | DISPLAY PANEL, LIQUID CRYSTAL | |

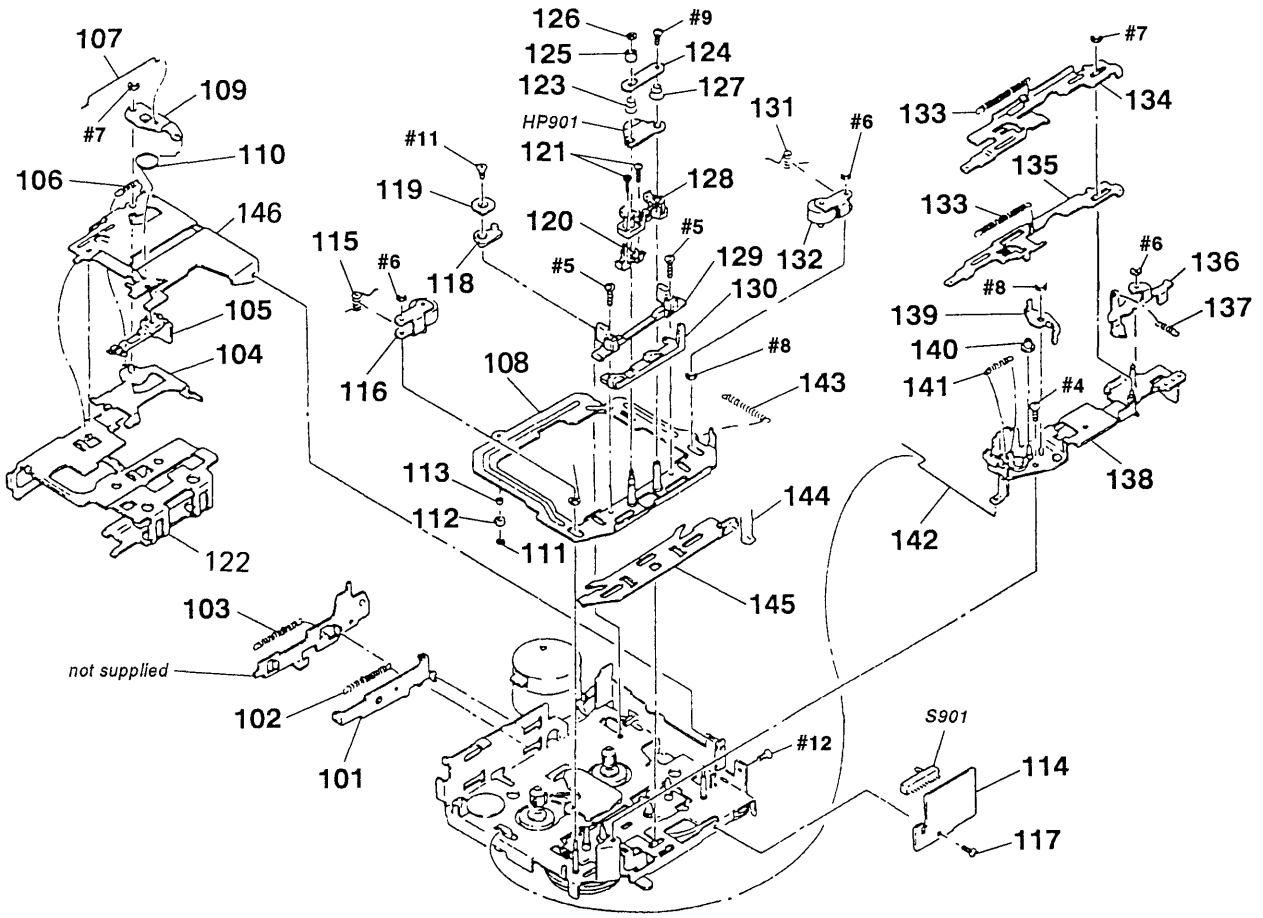
## 6-2. MAIN SECTION




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * 51 | X-3366-791-1 | CHASSIS ASSY | |
| 52 | 1-765-143-21 | WIRE (FLAT TYPE) (8 CORE) | |
| 53 | 1-751-021-11 | CABLE, FLAT (28 CORE) | |
| 54 | 3-373-632-01 | BUTTON (REW) | |
| 55 | 3-373-633-01 | BUTTON (FF) | |
| 56 | 3-392-429-01 | LEVER (EJECT) | |
| 57 | 3-373-631-01 | BUTTON (EJECT) | |
| 58 | 3-372-033-11 | SCREW (2.6×3), +P | |
| 59 | 3-344-501-01 | SCREW (+PTT 3×6), GROUND POINT | |
| * 60 | 3-921-399-01 | BRACKET (CONNECTOR) | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * 61 | 3-386-157-01 | HEAT SINK | |
| 62 | 1-765-421-11 | CORD (WITH CONNECTOR) (POWER, SPEAKER) (including F1, F2) | |
| * 64 | A-3222-864-A | MAIN BOARD, COMPLETE | |
| 65 | 3-373-627-01 | INSULATOR | |
| 66 | 3-575-039-00 | NUT, CONTROL | |
| F1 | 1-533-287-11 | FUSE (1A) | |
| F2 | 1-532-421-11 | FUSE (5A) | |
| TU1 | A-3298-578-A | MW/SW TUNER UNIT | |

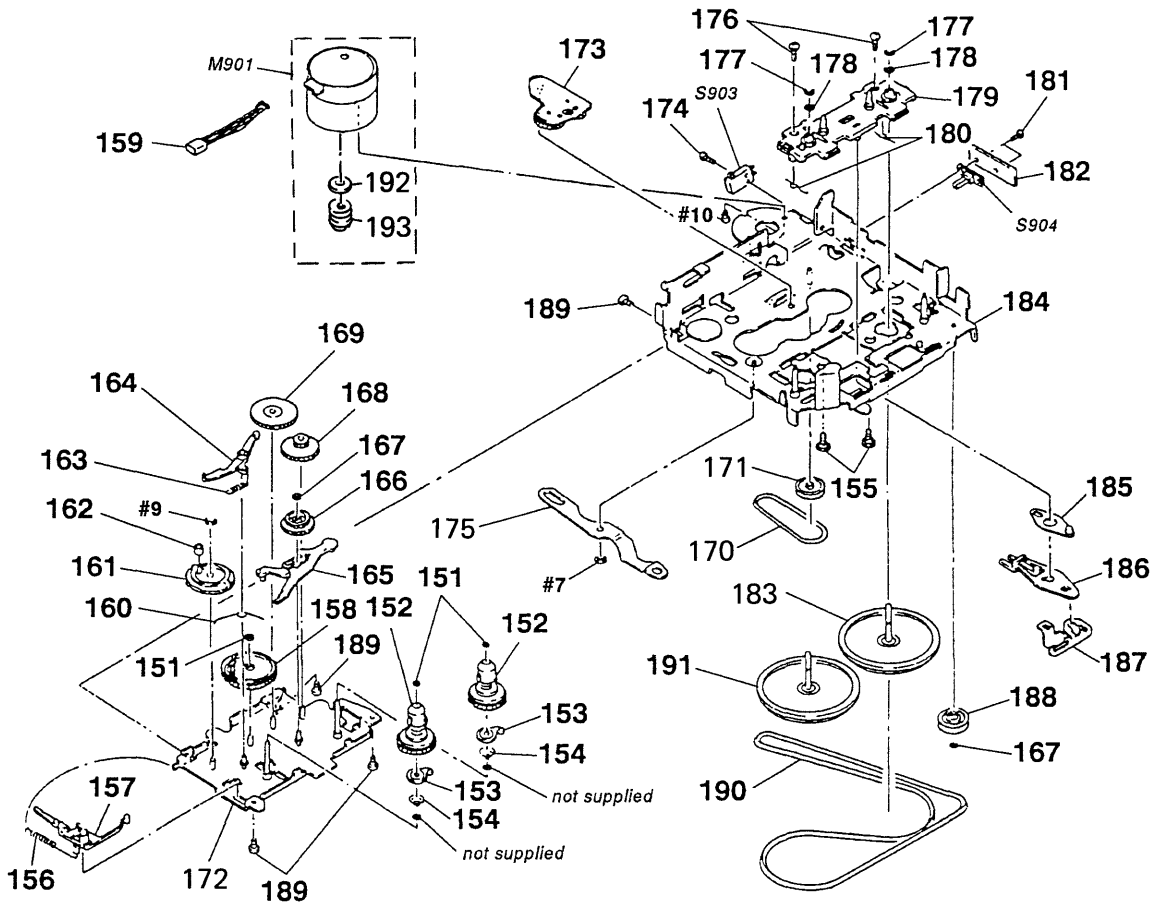
## 6-3. MD SECTION-1
## (MG-36SHJ-32)




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * 101 | 3-392-978-01 | LEVER, EJECT | |
| 102 | 3-392-950-01 | SPRING | |
| 103 | 3-392-951-01 | SPRING | |
| * 104 | 3-392-921-01 | LOCK ASSY, EJECT CAM | |
| 105 | 3-392-972-01 | HOOKER TAPE | |
| 106 | 3-392-953-01 | SPRING | |
| 107 | 3-392-969-01 | LINK, RETURN | |
| * 108 | 3-392-975-05 | PLATE ASSY (S), HEAD | |
| * 109 | 3-392-932-01 | PLATE, CENTER | |
| 110 | 3-392-961-01 | SPRING (B) | |
| 111 | 3-570-615-00 | POLY-WASHER (DIA. 1.2) | |
| 112 | 3-392-945-01 | ROLLER (A), H.P | |
| 113 | 3-392-942-01 | ROLLER (B), H.P | |
| 114 | 3-392-970-01 | CHASSIS, SWITCH | |
| 115 | 3-392-958-01 | SPRING (R) | |
| 116 | 3-375-378-01 | ARM (R) ASSY, PINCH | |
| * 117 | 4-908-792-11 | SCREW (B2) | |
| 118 | 3-372-244-01 | ARM (N), MUTE | |
| * 119 | 3-397-427-01 | COLLAR, MUTE ARM | |
| 120 | 3-377-908-01 | SHIM (X), ADJUSTOR | |
| 121 | 3-375-379-01 | SCREW, AZIMUTH | |
| 122 | 3-375-384-01 | HOLDER (X), CASSETTE | |
| 123 | 3-392-956-01 | SPRING (A) | |
| * 124 | 3-392-930-01 | RETAINER, SPRING | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 125 | 3-392-943-01 | ROLLER, FF | |
| 126 | 3-676-387-00 | POLY-SLIDER (DIA. 1.6) | |
| 127 | 3-392-955-01 | SPRING (A) | |
| * 128 | 3-379-142-01 | ARM (B), ADJUSTOR | |
| 129 | 3-392-984-02 | GUIDE, TAPE | |
| 130 | 3-377-909-02 | LINK (X), ADJUSTOR | |
| 131 | 3-392-957-01 | SPRING (F) | |
| 132 | 3-375-377-01 | ARM (F) ASSY, PINCH | |
| 133 | 3-392-948-01 | SPRING | |
| * 134 | 3-392-980-01 | LEVER, FF | |
| * 135 | 3-392-981-01 | LEVER, REW | |
| * 136 | 3-392-935-01 | ARM, LOCK | |
| 137 | 3-392-917-01 | SPRING | |
| * 138 | 3-372-242-01 | BRACKET ASSY (D), LEVER | |
| * 139 | 3-392-933-01 | LEVER (B), CHANGE | |
| 140 | 3-392-994-01 | ROLLER, PROGRAM | |
| 141 | 3-392-954-01 | SPRING | |
| 142 | 3-372-243-01 | LINK (B), SELECTOR | |
| 143 | 3-392-952-01 | SPRING | |
| 144 | 3-392-962-01 | SPRING | |
| * 145 | 3-392-919-01 | ARM ASSY, F, R SELECTION | |
| 146 | 3-375-383-01 | HANGER (X), CASSETTE | |
| HP901 | 1-543-717-11 | HEAD, MAGNETIC (PLAYBACK) | |
| S901 | 1-692-502-11 | SWITCH, SLIDE (FWD/REV) | |

## 6-4. MD SECTION-2
## (MG-36SHJ-32)




| Ref.No. | Part No. | Description | Remark |
|---|---|---|---|
| 151 | 3-676-387-00 | POLY-SLIDER (DIA.1.6) | |
| 152 | 3-376-196-01 | SPINDLE ASSY (S), REEL | |
| 153 | 3-375-380-01 | CAM ASSY, DETECTION | |
| 154 | 3-370-619-01 | SPRING, BACK TENSION | |
| 155 | 3-392-918-01 | SCREW, EJECT HOOK | |
| 156 | 3-392-959-01 | SPRING | |
| 157 | 3-392-985-02 | RATCHET | |
| 158 | 3-392-990-01 | GEAR, DETECTION | |
| * 159 | 3-376-195-01 | CONNECTOR ASSY (3P) | |
| 160 | 3-392-960-01 | SPRING | |
| 161 | 3-392-987-01 | GEAR, SELECTOR | |
| 162 | 3-392-944-01 | COLLAR (CELECTER GEAR) | |
| 163 | 3-375-131-01 | SPRING, GEAR LOCK ARM | |
| 164 | 3-392-989-02 | ARM, GEAR LOCK | |
| 165 | 3-392-986-01 | ARM, SENSOR | |
| 166 | 3-392-915-01 | GEAR, IDLE | |
| 167 | 3-570-615-00 | POLY-WASHER (DIA.1.2) | |
| 168 | 3-392-936-01 | GEAR (A) | |
| 169 | 3-392-937-01 | GEAR (B) | |
| 170 | 3-375-375-02 | BELT (C), SUB | |
| 171 | 3-392-938-01 | GEAR, PULLY | |
| * 172 | 3-392-976-01 | BASE ASSY, REEL | |
| 173 | 3-392-916-01 | ARM ASSY, TU GEAR | |

| Ref.No. | Part No. | Description | Remark |
|---|---|---|---|
| 174 | 3-318-203-11 | SCREW (B1.7×6), TAPPING | |
| * 175 | 3-392-979-01 | LEVER, REVERSE | |
| 176 | 3-318-204-81 | SCREW (M1.7×3), TAPPING | |
| 177 | 3-590-768-00 | RING (A), E | |
| 178 | 3-701-437-11 | POLY-SLIDER (A) | |
| * 179 | 3-375-381-01 | BRACKET ASSY (X), CM | |
| 180 | 3-392-963-01 | SPRING (R) | |
| 181 | 3-318-204-91 | SCREW (M1.7X4), TAPPING | |
| 182 | 3-375-376-01 | MUTE (PWB) | |
| 183 | 3-392-926-02 | FLYWHEEL ASSY (BF) | |
| * 184 | 3-392-974-01 | CHASSIS ASSY, MAIN | |
| * 185 | 3-392-925-01 | ARM (A) ASSY, F.R | |
| * 186 | 3-392-939-01 | ARM, FF | |
| * 187 | 3-392-934-01 | ARM (B), F.R | |
| 188 | 3-392-941-01 | PULLEY (A), IDLE | |
| * 189 | 4-908-792-11 | SCREW (B2) | |
| 190 | 3-392-967-01 | BELT, MAIN | |
| 191 | 3-392-995-02 | FLYWHEEL ASSY (BR) | |
| * 192 | 3-392-912-01 | WASHER, MYLAR | |
| * 193 | 3-392-913-01 | PULLEY, MOTOR | |
| S903 | 1-554-790-21 | SWITCH, POWER (TAPE IN/OUT) | |
| S904 | 1-692-065-11 | SWITCH, LEAF (MUTE) | |
| M901 | X-3364-496-1 | MOTOR ASSY | |

# SECTION 7
# ELECTRICAL PARTS LIST

**MAIN**

NOTE :
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μA.... , uPA.... : μPA....
  uPB.... : μPB.... , uPC.... : μPC....
  uPD.... : μPD....
- CAPACITORS
  uF : μF
- COILS
  uH : μH

When indicating parts by reference number, please include the board.

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| * | A-3222-864-A | MAIN BOARD, COMPLETE | | | |
| | | ********** | | | |
| * | 3-921-399-01 | BRACKET (CONNECTOR) | | | |
| | | < CAPACITOR > | | | |
| C1 | 1-163-097-00 | CERAMIC CHIP | 15PF | 5% | 50V |
| C2 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C3 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C4 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C5 | 1-163-222-11 | CERAMIC CHIP | 5PF | 0.25PF | 50V |
| C7 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V |
| C8 | 1-104-760-11 | CERAMIC CHIP | 0.047uF | 10% | 50V |
| C9 | 1-163-121-00 | CERAMIC CHIP | 150PF | 5% | 50V |
| C10 | 1-124-256-00 | ELECT | 1.5uF | 20% | 50V |
| C11 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C12 | 1-124-465-00 | ELECT | 0.47uF | 20% | 50V |
| C13 | 1-126-160-11 | ELECT | 1uF | 20% | 50V |
| C14 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V |
| C15 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C16 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C17 | 1-163-097-00 | CERAMIC CHIP | 15PF | 5% | 50V |
| C18 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V |
| C19 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C20 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C21 | 1-164-182-11 | CERAMIC CHIP | 0.0033uF | 10% | 50V |
| C22 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C23 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V |
| C24 | 1-126-160-11 | ELECT | 1uF | 20% | 50V |
| C25 | 1-124-464-11 | ELECT | 0.22uF | 20% | 50V |
| C26 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C27 | 1-126-160-11 | ELECT | 1uF | 20% | 50V |
| C28 | 1-163-024-00 | CERAMIC CHIP | 0.018uF | 10% | 50V |
| C29 | 1-163-024-00 | CERAMIC CHIP | 0.018uF | 10% | 50V |
| C30 | 1-163-227-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V |
| C31 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C82 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C83 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C85 | 1-126-233-11 | ELECT | 22uF | 20% | 50V |
| C101 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C102 | 1-124-903-11 | ELECT | 1uF | 20% | 50V |
| C103 | 1-163-121-00 | CERAMIC CHIP | 150PF | 5% | 50V |
| C104 | 1-162-587-11 | CERAMIC CHIP | 0.039uF | 10% | 25V |
| C105 | 1-124-443-00 | ELECT | 100uF | 20% | 10V |
| C106 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V |
| C121 | 1-124-927-11 | ELECT | 4.7uF | 20% | 100V |
| C122 | 1-124-927-11 | ELECT | 4.7uF | 20% | 100V |
| C125 | 1-163-239-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C131 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C141 | 1-104-760-11 | CERAMIC CHIP | 0.047uF | 10% | 50V |
| C151 | 1-124-443-00 | ELECT | 100uF | 20% | 10V |
| C154 | 1-104-792-51 | ELECT | 33uF | 20% | 16V |
| C155 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C161 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C201 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C202 | 1-124-903-11 | ELECT | 1uF | 20% | 50V |
| C203 | 1-163-121-00 | CERAMIC CHIP | 150PF | 5% | 50V |
| C204 | 1-162-587-11 | CERAMIC CHIP | 0.039uF | 10% | 25V |
| C205 | 1-124-443-00 | ELECT | 100uF | 20% | 10V |
| C206 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V |
| C221 | 1-124-927-11 | ELECT | 4.7uF | 20% | 100V |
| C222 | 1-124-927-11 | ELECT | 4.7uF | 20% | 100V |
| C225 | 1-163-239-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C231 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C241 | 1-104-760-11 | CERAMIC CHIP | 0.047uF | 10% | 50V |
| C251 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C353 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C354 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C451 | 1-124-443-00 | ELECT | 100uF | 20% | 10V |
| C452 | 1-124-477-11 | ELECT | 47uF | 20% | 25V |
| C453 | 1-126-934-11 | ELECT | 220uF | 20% | 16V |

# MAIN

| Ref.No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C454 | 1-101-004-00 | CERAMIC | 0.01uF | | 50V |
| C455 | 1-124-556-11 | ELECT | 2200uF | 20% | 16V |
| C456 | 1-101-004-00 | CERAMIC | 0.01uF | | 50V |
| C457 | 1-124-360-00 | ELECT | 1000uF | 20% | 16V |
| C601 | 1-126-160-11 | ELECT | 1uF | 20% | 50V |
| C602 | 1-163-205-00 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C603 | 1-126-233-11 | ELECT | 22uF | 20% | 50V |
| C604 | 1-136-169-00 | FILM | 0.22uF | 5% | 50V |
| C605 | 1-136-169-00 | FILM | 0.22uF | 5% | 50V |
| C651 | 1-126-160-11 | ELECT | 1uF | 20% | 50V |
| C652 | 1-163-205-00 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C653 | 1-126-233-11 | ELECT | 22uF | 20% | 50V |
| C654 | 1-136-169-00 | FILM | 0.22uF | 5% | 50V |
| C655 | 1-136-169-00 | FILM | 0.22uF | 5% | 50V |
| C691 | 1-124-477-11 | ELECT | 47uF | 20% | 25V |
| C692 | 1-126-176-11 | ELECT | 220uF | 20% | 10V |
| C701 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C702 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C703 | 1-126-916-11 | ELECT | 1000uF | 20% | 6.3V |
| C704 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C705 | 1-163-234-11 | CERAMIC CHIP | 20PF | 5% | 50V |
| C706 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C707 | 1-162-638-11 | CERAMIC CHIP | 1uF | | 16V |
| C709 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C710 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C711 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C712 | 1-163-021-91 | CERAMIC CHIP | 0.01uF | | 50V |
| C751 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C752 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V |
| C753 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V |
| C754 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C815 | 1-164-161-11 | CERAMIC CHIP | 0.0022uF | 10% | 100V |
| | | < FILTER > | | | |
| CF1 | 1-760-382-11 | FILTER, CERAMIC | | | |
| CF2 | 1-567-250-11 | OSCILLATOR, CERAMIC | | | |
| | | < CONNECTOR > | | | |
| * CNP101 | 1-506-992-11 | PIN, CONNECTOR (PC BOARD) 10P | | | |
| CNP801 | 1-580-611-31 | PIN, CONNECTOR 9P | | | |
| * CNP901 | 1-506-985-11 | PIN, CONNECTOR (PC BOARD) 3P | | | |
| | | < DIODE > | | | |
| D1 | 8-719-901-33 | DIODE | 1SS133 | | |
| D2 | 8-719-901-33 | DIODE | 1SS133 | | |
| D3 | 8-719-914-44 | DIODE | DAP202K | | |
| D4 | 8-719-901-33 | DIODE | 1SS133 | | |
| D5 | 8-719-109-60 | DIODE | RD2.7ESB2 | | |

| Ref.No. | Part No. | Description | | Remark |
|---|---|---|---|---|
| D6 | 8-719-901-33 | DIODE | 1SS133 | |
| D54 | 8-719-901-33 | DIODE | 1SS133 | |
| D58-61 | 8-719-901-33 | DIODE | 1SS133 | |
| D101 | 8-719-901-33 | DIODE | 1SS133 | |
| D161 | 8-719-901-33 | DIODE | 1SS133 | |
| D201 | 8-719-901-33 | DIODE | 1SS133 | |
| D351 | 8-719-109-89 | DIODE | RD5.6ESB2 | |
| D354 | 8-719-901-33 | DIODE | 1SS133 | |
| D357 | 8-719-901-33 | DIODE | 1SS133 | |
| D358 | 8-719-901-33 | DIODE | 1SS133 | |
| D451 | 8-719-923-60 | DIODE | MTZJ-T-77-9.1A | |
| D452 | 8-719-901-33 | DIODE | 1SS133 | |
| D453-456 | | | | |
| | 8-719-200-82 | DIODE | 11ES2 | |
| D691 | 8-719-901-33 | DIODE | 1SS133 | |
| D692 | 8-719-901-33 | DIODE | 1SS133 | |
| D701 | 8-719-109-89 | DIODE | RD5.6ESB2 | |
| D702 | 8-719-109-89 | DIODE | RD5.6ESB2 | |
| D703-710 | | | | |
| | 8-719-901-33 | DIODE | 1SS133 | |
| | | < FRONT END > | | |
| FE1 | 1-693-223-41 | FRONT END, FM | | |
| | | < IC > | | |
| IC1 | 8-759-822-57 | IC | LA1145MF2 | |
| IC2 | 8-759-821-70 | IC | LA3430M | |
| IC101 | 8-759-046-31 | IC | BA328F | |
| IC102 | 8-759-909-71 | IC | BA4558F | |
| IC601 | 8-759-243-27 | IC | TA8215H | |
| IC701 | 8-759-334-43 | IC | uPD1713AG-675-00 | |
| | | < JACK > | | |
| J1 | 1-573-995-11 | JACK (ANT) | | |
| | | < JUMPER RESISTOR > | | |
| JC1 | 1-216-296-00 | METAL CHIP | 0 5% | 1/8W |
| JC4 | 1-216-295-00 | METAL CHIP | 0 5% | 1/10W |
| | | < COIL > | | |
| L1 | 1-410-750-31 | INDUCTOR | 0.47uH | |
| L2 | 1-414-138-21 | INDUCTOR | 0.33uH | |
| L3 | 1-414-137-31 | INDUCTOR | 0.22uH | |
| L5 | 1-410-513-11 | INDUCTOR | 22uH | |
| | | < TRANSISTOR > | | |
| Q1 | 8-729-120-28 | TRANSISTOR | 2SC1623-L5L6 | |
| Q2 | 8-729-901-00 | TRANSISTOR | DTC124EK | |

| Ref.No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| Q56 | 8-729-901-01 | TRANSISTOR | DTC144EK | | | |
| Q57 | 8-729-120-28 | TRANSISTOR | 2SC1623-L5L6 | | | |
| Q58 | 8-729-120-28 | TRANSISTOR | 2SC1623-L5L6 | | | |
| Q59 | 8-729-901-00 | TRANSISTOR | DTC124EK | | | |
| Q111 | 8-729-903-30 | TRANSISTOR | DTC144TK | | | |
| Q141 | 8-729-902-99 | TRANSISTOR | DTC114TK | | | |
| Q211 | 8-729-903-30 | TRANSISTOR | DTC144TK | | | |
| Q241 | 8-729-902-99 | TRANSISTOR | DTC114TK | | | |
| Q351 | 8-729-901-00 | TRANSISTOR | DTC124EK | | | |
| Q352 | 8-729-216-22 | TRANSISTOR | 2SA1162-G | | | |
| Q451 | 8-729-216-22 | TRANSISTOR | 2SA1162-G | | | |
| Q452 | 8-729-205-02 | TRANSISTOR | 2SA1150-Y | | | |
| Q453 | 8-729-902-99 | TRANSISTOR | DTC114TK | | | |
| Q454 | 8-729-209-15 | TRANSISTOR | 2SD2012 | | | |
| Q455 | 8-729-216-22 | TRANSISTOR | 2SA1162-G | | | |
| Q456 | 8-729-205-02 | TRANSISTOR | 2SA1150-Y | | | |
| Q457 | 8-729-901-00 | TRANSISTOR | DTC124EK | | | |
| Q501 | 8-729-903-30 | TRANSISTOR | DTC144TK | | | |
| Q601 | 8-729-903-30 | TRANSISTOR | DTC144TK | | | |
| Q701 | 8-729-967-32 | TRANSISTOR | 2SC2673-Q | | | |
| Q751 | 8-729-016-79 | TRANSISTOR | 2SC2412KLN-T146-E | | | |
| Q752 | 8-729-016-79 | TRANSISTOR | 2SC2412KLN-T146-E | | | |
| | | < RESISTOR > | | | | |
| R1 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2 | 1-216-001-00 | METAL CHIP | 10 | 5% | 1/10W | |
| R3 | 1-216-105-91 | METAL GLAZE | 220K | 5% | 1/10W | |
| R4 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W | |
| R5 | 1-216-083-00 | METAL CHIP | 27K | 5% | 1/10W | |
| R6-8 | 1-216-075-00 | METAL CHIP | 12K | 5% | 1/10W | |
| R10 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R11 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W | |
| R12 | 1-216-083-00 | METAL CHIP | 27K | 5% | 1/10W | |
| R13 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W | |
| R14 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W | |
| R15 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W | |
| R16 | 1-216-091-00 | METAL CHIP | 56K | 5% | 1/10W | |
| R17 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R18 | 1-216-001-00 | METAL CHIP | 10 | 5% | 1/10W | |
| R19 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R21 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R22 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R23 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W | |
| R24 | 1-216-689-11 | METAL CHIP | 39K | 0.5% | 1/10W | |
| R25 | 1-216-090-00 | METAL CHIP | 51K | 5% | 1/10W | |
| R26 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R27 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W | |
| R28 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W | |
| R29 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R30 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W | |
| R31 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R32 | 1-216-091-00 | METAL CHIP | 56K | 5% | 1/10W | |
| R33 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R52 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R65 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R66 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R70 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W | |
| R71 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W | |
| R74 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R75 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R76 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R77 | 1-216-077-00 | METAL CHIP | 15K | 5% | 1/10W | |
| R78 | 1-216-077-00 | METAL CHIP | 15K | 5% | 1/10W | |
| R79 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R80 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W | |
| R82 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W | |
| R101 | 1-216-097-00 | METAL CHIP | 100K | 5% | 1/10W | |
| R102 | 1-216-063-00 | METAL CHIP | 3.9K | 5% | 1/10W | |
| R103 | 1-216-095-00 | METAL CHIP | 82K | 5% | 1/10W | |
| R104 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R105 | 1-216-013-00 | METAL CHIP | 33 | 5% | 1/10W | |
| R106 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W | |
| R107 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R111 | 1-216-097-00 | METAL CHIP | 100K | 5% | 1/10W | |
| R121 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R122 | 1-216-097-00 | METAL CHIP | 100K | 5% | 1/10W | |
| R124 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R141 | 1-216-689-11 | METAL CHIP | 39K | 0.5% | 1/10W | |
| R142 | 1-216-091-00 | METAL CHIP | 56K | 5% | 1/10W | |
| R151 | 1-216-009-00 | METAL CHIP | 22 | 5% | 1/10W | |
| R152 | 1-216-009-00 | METAL CHIP | 22 | 5% | 1/10W | |
| R153 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W | |
| R154 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W | |
| R161 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R201 | 1-216-097-00 | METAL CHIP | 100K | 5% | 1/10W | |
| R202 | 1-216-063-00 | METAL CHIP | 3.9K | 5% | 1/10W | |
| R203 | 1-216-095-00 | METAL CHIP | 82K | 5% | 1/10W | |
| R204 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R205 | 1-216-013-00 | METAL CHIP | 33 | 5% | 1/10W | |
| R206 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W | |
| R207 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R211 | 1-216-097-00 | METAL CHIP | 100K | 5% | 1/10W | |
| R221 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R222 | 1-216-097-00 | METAL CHIP | 100K | 5% | 1/10W | |
| R224 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R241 | 1-216-689-11 | METAL CHIP | 39K | 0.5% | 1/10W | |
| R242 | 1-216-091-00 | METAL CHIP | 56K | 5% | 1/10W | |
| R251 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |

# MAIN SWITCH

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R351 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W |
| R352 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R353 | 1-216-077-00 | METAL CHIP | 15K | 5% | 1/10W |
| R354 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R355 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R451 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R452 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R453 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R454 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W |
| R455 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W |
| R456 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W |
| R457 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W |
| R458 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W |
| R459-461 | | | | | |
| | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| R462 | 1-216-105-91 | METAL GLAZE | 220K | 5% | 1/10W |
| R463 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R501 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R502 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R601 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R602 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R603 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R604 | 1-216-134-00 | METAL CHIP | 2.2 | 5% | 1/8W |
| R605 | 1-216-134-00 | METAL CHIP | 2.2 | 5% | 1/8W |
| R653 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R654 | 1-216-134-00 | METAL CHIP | 2.2 | 5% | 1/8W |
| R655 | 1-216-134-00 | METAL CHIP | 2.2 | 5% | 1/8W |
| R691 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W |
| R692 | 1-216-689-11 | METAL CHIP | 39K | 0.5% | 1/10W |
| R693 | 1-216-097-00 | METAL CHIP | 100K | 5% | 1/10W |
| R695 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R701 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R702 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R703 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R706-708 | | | | | |
| | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R709 | 1-216-097-00 | METAL CHIP | 100K | 5% | 1/10W |
| R711 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W |
| R712 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| R713 | 1-216-029-00 | METAL CHIP | 150 | 5% | 1/10W |
| R714 | 1-216-097-00 | METAL CHIP | 100K | 5% | 1/10W |
| R715 | 1-216-091-00 | METAL CHIP | 56K | 5% | 1/10W |
| R716 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W |
| R717 | 1-247-855-11 | CARBON | 10K | 5% | 1/4W |
| R751 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R755 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W |
| R757 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | < VARIABLE RESISTOR > | |
| RV1 | 1-238-601-11 | RES, ADJ, CARBON 22K | (FM AUTO STOP LEVEL) |
| RV401 | 1-223-637-11 | RES, VAR, CARBON 100K/200K/200K | (VOLUME/BARANCE/POWER) |
| RV402 | 1-223-603-11 | RES, VAR, CARBON 100K/100K | (HI-FILTER/SEEK) |
| | | < TRANSFORMER > | |
| T1 | 1-404-856-11 | COIL, DISCRIMINATOR | |
| | | < TUNER UNIT > | |
| TU1 | A-3298-578-A | MW/SW TUNER UNIT | |
| | | < VIBRATOR > | |
| X701 | 1-567-713-11 | VIBRATOR, CRYSTAL (4.5MHz) | |
| ********** | | | |
| * | 1-656-347-11 | SWITCH BOARD | |
| | | ********** | |
| * | 3-909-885-01 | PLATE, LIGHT GUIDE | |
| | | < LIQUID CRYSTAL DISPLAY > | |
| LCD801 | 1-810-837-11 | DISPLAY PANEL, LIQUID CRYSTAL | |
| | | < PILOT LAMP > | |
| PL801 | 1-517-156-11 | LAMP, PILOT (BACK LIGHT) | |
| | | < SWITCH > | |
| S801 | 1-762-305-11 | SWITCH, KEY BOARD (DSPL) | |
| S802 | 1-762-305-11 | SWITCH, KEY BOARD (LCL/BASS) | |
| S803 | 1-762-305-11 | SWITCH, KEY BOARD (BAND FM/MW/SW) | |
| S804 | 1-762-305-11 | SWITCH, KEY BOARD (1 MANU -) | |
| S805 | 1-762-305-11 | SWITCH, KEY BOARD (2) | |
| S806 | 1-762-305-11 | SWITCH, KEY BOARD (3 MANU +) | |
| S807 | 1-762-305-11 | SWITCH, KEY BOARD (4) | |
| S808 | 1-762-305-11 | SWITCH, KEY BOARD (5) | |
| S809 | 1-762-305-11 | SWITCH, KEY BOARD (6) | |
| ********** | | | |

| Ref.No. | Part No. | Description | Remark |
|---|---|---|---|
| | | MISCELLANEOUS | |
| | | ********** | |
| 52 | 1-765-143-21 | WIRE (FLAT TYPE) (8 CORE) | |
| 53 | 1-751-021-11 | CABLE, FLAT (28 CORE) | |
| 62 | 1-765-421-11 | CORD (WITH CONNECTOR) (POWER, SPEAKER) (including F1, F2) | |
| F1 | 1-533-287-11 | FUSE (1A) | |
| F2 | 1-532-421-11 | FUSE (5A) | |
| HP901 | 1-543-717-11 | HEAD, MAGNETIC (PLAYBACK) | |
| M901 | X-3364-496-1 | MOTOR ASSY | |
| S901 | 1-692-502-11 | SWITCH, SLIDE (FWD/REV) | |
| S903 | 1-554-790-21 | SWITCH, POWER (TAPE IN/PUT) | |
| S904 | 1-692-065-11 | SWITCH, LEAF (MUTE) | |
| ********** | | | |
| | | ACCESSORIES & PACKING MATERIALS | |
| | | ********** | |
| | 1-504-791-21 | SPEAKER (16CM) (XRS-555) | |
| | 1-765-421-11 | CORD (WITH CONNECTOR) (POWER, SPEAKER) (including F1, F2) | |
| * | 3-375-632-11 | CUSHION (UPPER) (XR-6054) | |
| * | 3-375-633-11 | CUSHION (LOWER) (XR-6054) | |
| | 3-798-555-41 | MANUAL, INSTRUCTION (ENGLISH) | |
| | 3-798-556-41 | MANUAL, INSTRUCTION, INSTALL (ENGLISH, ARABIC) | |
| | 3-798-557-41 | MANUAL, INSTRUCTION, INSTALL (ENGLISH, ARABIC) (XRS-555) | |
| | 3-923-707-01 | INDIVIDUAL CARTON (XRS-555) (MADE IN KOREA) | |
| | 3-923-707-11 | INDIVIDUAL CARTON (XRS-555) (MADE IN JAPAN) | |
| | 3-924-428-01 | CUSHION (FRONT) (XRS-555) | |
| | 3-924-429-01 | CUSHION (REAR) (XRS-555) | |
| ********** | | | |

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## HARDWARE LIST
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| | | |
|---|---|---|
| #1 | 7-621-770-87 | SCREW +PTT 2.6×5 (S) |
| #2 | 7-621-770-67 | SCREW +PTT 2.6×6 (S) |
| #3 | 7-682-550-04 | SCREW +PTT 3×12 (S) |
| #4 | 7-621-255-25 | SCREW +PTT 2×4 (S) |
| #5 | 7-627-553-88 | SCREW, PRECISION +P 2×7 |
| #6 | 7-624-102-04 | STOP RING 1.5, TYPE -E |
| #7 | 7-624-104-04 | STOP RING 2.0, TYPE -E |
| #8 | 7-624-118-01 | RING, RETAINING E-2.5 |
| #9 | 7-627-553-48 | SCREW, PRECISION +P 2×4 |
| #10 | 7-621-255-15 | SCREW +P 2×3 |
| #11 | 7-621-591-00 | SCREW +K 2×4 |
| #12 | 7-621-555-10 | SCREW +K 2×3 |

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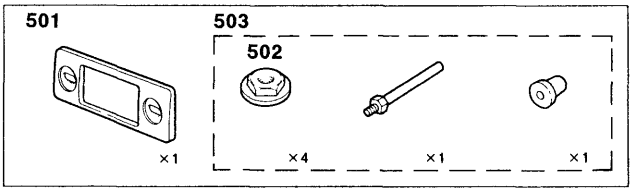
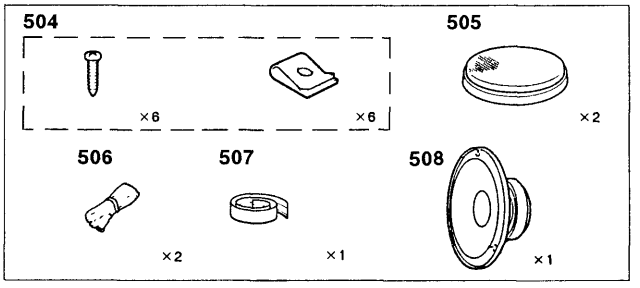
### MOUNTING HARDWARE




### XRS-555:




| | | |
|---|---|---|
| 501 | 3-383-094-81 | PLATE, TRIM |
| 502 | 3-575-039-00 | NUT, CONTROL |
| 503 | X-3368-735-1 | SCREW, ASSY (2S) |
| 504 | X-3369-839-1 | SCREW, ASSY (XRS-555) |
| 505 | 3-921-116-01 | GRILLE (XRS-555) |
| 506 | 1-559-640-91 | CORD, SPEAKER (XRS-555) |
| 507 | X-3363-118-1 | CEMENT ASSY, CONTACT (XRS-555) |
| 508 | 1-504-791-21 | SPEAKER (XRS-555) |

9-959-934-11

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